



Faculty Development Program



VIT[®]
Vellore Institute of Technology
(Deemed to be University under section 3 of UGC Act, 1956)

Title : SpoRIC-CRF-PRISM (Protocol for Research Instrument Stepwise Management) emphasis on NMR

Event Outcome

- Participants will gain a comprehensive understanding of NMR concepts

Date : 2026-03-13 - 2026-03-13

Time : 14:15 - 17:30

Venue : LIBRARY VIDEO CONFERENCE HALL 316



Resource Person 1 - Details

Name : Vijayakumar V

Designation : Professor Higher Academic Grade, School of Advanced Sciences

University/ Company : VIT, Vellore

Address : India, 632014.

Resource Person's Profile :

1. Profile of Vijayakumar V

Dr. V. VIJAYAKUMAR, FRSC

Professor, Department of Chemistry

School of Advanced Sciences

Vellore Institute of Technology (VIT), India

Nuclear Magnetic Resonance (NMR) spectroscopy is a vital non-destructive technique for determining molecular structure, composition, and dynamics by analyzing atomic nuclei. It identifies organic and inorganic molecules, making it indispensable in chemistry, medicine, materials science, and industry. NMR reveals 3D structures, stereochemistry, and functional groups; supports medical diagnostics through MRS and MRI; aids chemical analysis by detecting impurities and monitoring reactions; and characterizes polymers, glasses, and mixtures. It also benefits environmental and petroleum studies by analyzing soil, plants, and rock porosity.

Demo on NMR research facility

Coordinator's: Prof. KATHIRVELAN J 11885 - Professor Grade 1 - SENSE
Prof. VIJAYAKUMAR V 10666 - Professor Higher Academic Grade - SAS